FACTSHEET

FIELD CROPS

ORDER NO. 00-019

JANUARY 2000

AGDEX 110/32

Ontario Ministry of Agriculture, Food and Rural Affairs

# 2000 PERFORMANCE TRIALS FOR DRY EDIBLE BEANS

**Ontario Pulse Crop Committee**

*(Replaces Factsheet No. 98-075, "1999 Performance Trials for Dry Edible Beans")*

This Factsheet contains the variety information for dry edible beans. This Factsheet will be the only source for this information as it will no longer be printed in Publication 296. The information is prepared by the Ontario Pulse Crop Committee and edited by OMAFRA.

## REFERENCES

*Field Crop Recommendations*, OMAFRA Publication 296.

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**TABLE 1. White Bean Variety Performance**

| Full Season/Mid-Season Areas [1] | | | Short Season Areas [2] | | |
|---|---|---|---|---|---|
| Variety [3] | Days to Maturity | Yield [4] (t/ha) | Variety [3] | Days to Maturity | Yield [4] (t/ha) |
| OAC Speedvale | 84 | 2.49 | OAC Speedvale | 91 | 2.46 |
| Pilot | 85 | 2.53 | Pilot | 92 | 2.44 |
| Envoy | 87 | 2.54 | Envoy | 93 | 2.54 |
| Centralia | 89 | 2.88 | Centralia | 97 | 2.75 |
| AC Compass | 90 | 3.12 | AC Compass | 98 | 2.91 |
| AC Hensall | 89 | 2.83 | AC Hensall | 99 | 2.42 |
| Avanti | 91 | 2.87 | Premiere | 100 | 2.89 |
| Premiere | 93 | 2.97 | Avanti | 101 | 2.80 |
| OAC Thunder | 93 | 3.18 | OAC Thunder | 102 | 2.84 |
| Stingray | 95 | 3.20 | Stingray | 103 | 2.89 |
| OAC Laser | 95 | 2.91 | OAC Laser | 104 | 2.61 |
| AC Trident | 96 | 3.05 | AC Trident | 105 | 2.95 |
| OAC Silvercreek | 96 | 3.08 | OAC Silvercreek | 106 | 2.76 |
| OAC Gryphon | 96 | 3.23 | OAC Gryphon | 106 | 2.92 |
| Crestwood | 97 | 3.08 | Crestwood | 106 | 2.78 |
| Vista | 97 | 3.08 | Vista | 108 | 2.98 |

[1] Yield and days to maturity are based on the mean of 12 trials at 6 locations (Ailsa Craig, Exeter, Kippen, Staffa, St. Thomas and Woodstock) over 3 years (1997-1999).

[2] Yield and days to maturity are based on the mean of 7 trials at 3 locations (Brussels, Elora and Winchester) over 3 years (1997-1999).

[3] White bean varieties are arranged based on days to maturity. The maturity of most varieties change between areas due to environmental differences.

[4] 1 t/ha = 893 lbs./ac.

**FIGURE 1. Regression for Full Season/Mid Season White Bean Varieties**

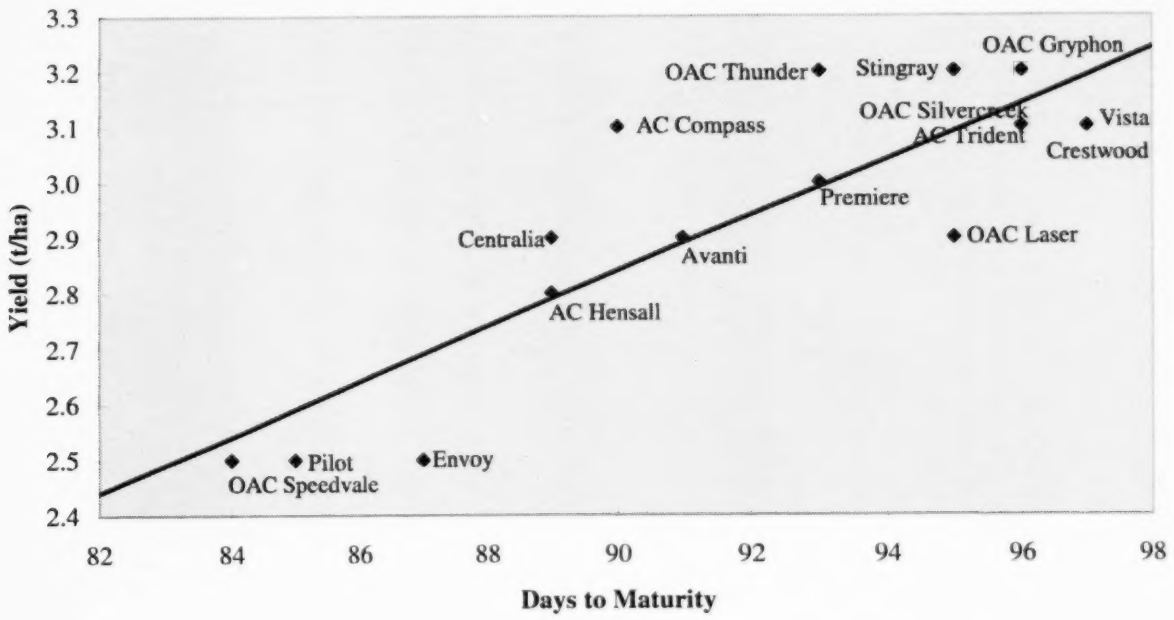


**FIGURE 2. Regression for Short Season White Bean Varieties**

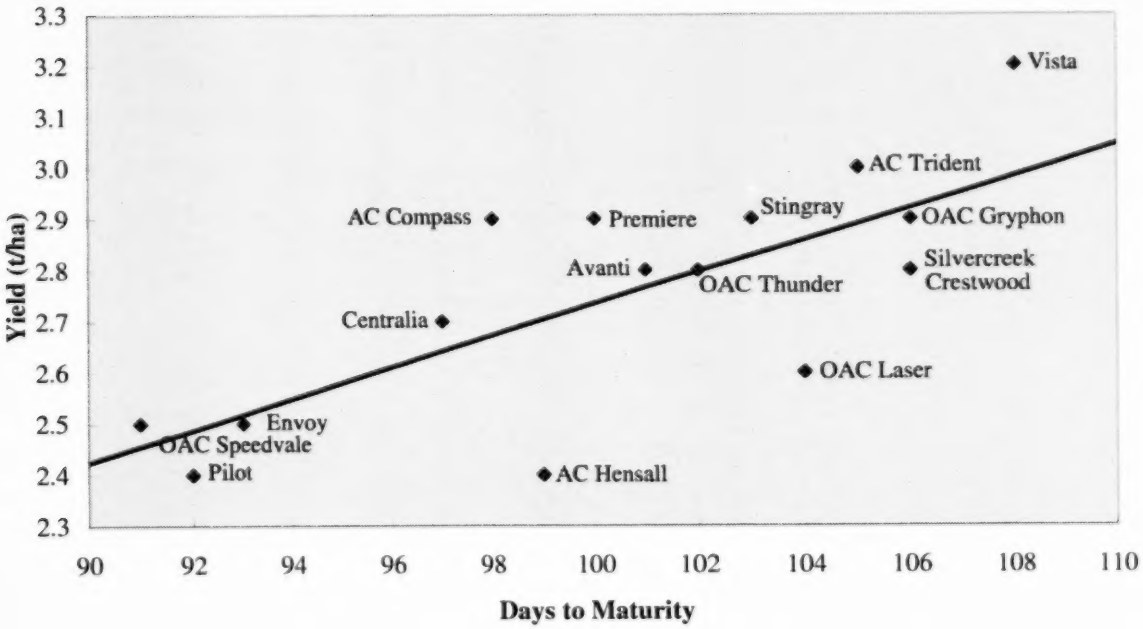

**TABLE 2. White Bean Characteristics and Distributors**

| Variety | 100 Seed Weight (g) | Disease Reaction [1] | | | | | Distributor |
|---|---|---|---|---|---|---|---|
| | | Bean Common Mosaic Virus | | Anthracnose | | | |
| | | Race 1 | Race 15 | Alpha Race | Delta Race | White Mould [2] | |
| OAC Speedvale | 21.3 | R | R | R | S | 3.2 | O.S.S.D.C. of C.S.G.A. |
| Pilot | 26.1 | R | R | R | R | 2.8 | Thompsons |
| Envoy | 20.8 | R | S | R | R | 3.1 | Cooks, Thompsons, Hensall Co-op |
| Centralia | 22.6 | R | R | R | R | 3.2 | O.S.S.D.C. of C.S.G.A. |
| AC Compass | 22.4 | R | R | S | S | 2.8 | Cooks |
| AC Hensall * | 19.7 | R | R | R | R | 2.9 | SeCan Association |
| Avanti | 19.9 | R | R | S | S | 2.8 | Cooks |
| Premiere | 21.2 | NA | NA | NA | NA | 3.1[3] | Thompsons |
| OAC Thunder | 23.1 | R | R | NA | S | 2.5 | SeCan Association |
| Stingray | 22.1 | NA | NA | NA | NA | 2.4 | Thompsons |
| OAC Laser | 20.6 | R | R | S | S | 2.0 | O.S.S.D.C. of C.S.G.A. |
| AC Trident | 20.4 | R | R | S | S | 2.6[3] | Great Canadian Bean Company |
| OAC Silvercreek | 21.6 | R | R | NA | R | 2.1 | SeCan Association |
| OAC Gryphon | 20.6 | R | R | R | R | 2.5 | O.S.S.D.C. of C.S.G.A. |
| Crestwood | 21.5 | R | R | R | R | 2.4 | Cooks, Thompsons, Hensall Co-op |
| Vista | 19.5 | R | R | R | R | 2.4 | Cooks, Thompsons, Hensall Co-op |

O.S.S.D.C. of C.S.G.A. (Ontario Stock Seed Distribution Committee of the Ontario Seed Growers Association).

[1] R = Resistant, S = Susceptible, NA = Not Available

[2] White mould ratings are based on a scale of 1–5, where 1 = very tolerant or low levels of natural infestation; 5 = very susceptible. White mould trials were located at Brussels and Staffa in 1995, St. Thomas and Shetland in 1996 and Kippen, St. Thomas and Elora in 1997.

[3] White mould rating based on 1996 and 1997 only.

* resistant to necrotic strains of Bean Common Mosaic Virus which cause black pod disease.

**TABLE 3. Addresses of Distributors for Edible Bean Varieties**

| | |
|---|---|
| Agri Sales Inc.<br>P. O. Box 68, 3058 Hwy. 45<br>Ordbend, California 95943<br>(530) 934-3385 | Novartis Seeds, Inc. (Rogers Brand)<br>P. O. Box 4188, Boise, Iowa<br>83711-4188<br>(208) 322-7272 |
| Gen-Tec Seeds Ltd.<br>P. O. Box 98, Woodslee ON<br>N0R 1V0<br>(519) 975-2557 | SeCan Association<br>200-57 Auriga Drive<br>Nepean ON<br>K2E 8B2<br>(613) 225-6891 |
| Ontario Stock Seed Distribution Committee of the<br>Canadian Seed Growers Association<br>P. O. Box 8455, Ottawa ON<br>K1G 3P1<br>(613) 236-0497 | Great Canadian Bean Co<br>R. R. #1, Ailsa Craig ON<br>N0M 1A0<br>(519) 232-4449 |
| W.G. Thompson and Sons Ltd.<br>P. O. Box 130, Blenheim ON<br>N0P 1A0<br>(519) 676-8146 | Canterra Seeds Ltd.<br>122-15 Innovation Blvd.<br>Saskatoon, Sask.<br>S7N 2X8<br>(204) 992-2727 |
| Johnson Seeds Ltd.<br>12 Garnet Bay,<br>Winnipeg, Manitoba<br>R3T 0L5<br>1-800-363-9442 | Hensall District Co-op<br>P.O. Box 219, Hensall, ON<br>N0M 1X0<br>(519) 262-3002 |
| Cook's Division of Parrish and Heimbecker<br>P.O. Box 10, Centralia ON<br>N0M 1K0<br>(519) 228-7000 | |

**TABLE 4. Coloured Bean Variety Performance**

| Variety | Market Class | Days to Maturity [1] | Yield [1,3] (t/ha) | 100 Seed [1] Weight (g) | Disease Reaction [2] Bean Common Mosaic Virus Race 1 | Bean Common Mosaic Virus Race 15 | Anthracnose Race Alpha | Anthracnose Race Delta | Distributor |
|---|---|---|---|---|---|---|---|---|---|
| AC Harblack | Black | 94 | 3.2 | 21.5 | R | R | S | R | SeCan Assoc. |
| Blackjack | Black | 95 | 3.1 | 22.6 | R | R | R | R | Gen-Tec |
| Cran 09 | Cranberry | 87 | 2.7 | 54.9 | S | R | S | S | Gen-Tec |
| Cran 34 | Cranberry | 88 | 2.7 | 51.8 | S | R | S | S | Gen-Tec |
| SVM Taylor Cranberry | Cranberry | 89 | 2.5 | 60.8 | S | S | S | S | A.S.I. |
| AC Calmont | dark red kidney | 98 | 2.5 | 57.2 | R | R | R | R | G.C.B.C. |
| AC Darkkid | dark red kidney | 96 | 2.4 | 56.0 | S | R | R | S | O.S.S.D.C. |
| California Dark Red | dark red kidney | 96 | 2.1 | 58.7 | S | S | R | S | O.S.S.D.C. |
| Camelot | dark red kidney | 94 | 2.5 | 53.2 | R | R | R | S | Novartis Inc. |
| Isles | dark red kidney | 94 | 2.4 | 64.6 | R | R | R | R | Thompsons |
| Montcalm | dark red kidney | 97 | 2.4 | 57.1 | R | R | R | S | Public |
| AC Elk | light red kidney | 88 | 2.5 | 62.7 | R | S | R | S | Canterra |
| AC Litekid | light red kidney | 99 | 2.9 | 55.2 | R | R | R | S | O.S.S.D.C. |
| California Light Red | light red kidney | 99 | 2.4 | 59.0 | S | S | R | S | O.S.S.D.C. |
| Chinook | light red kidney | 97 | 2.6 | 59.8 | R | R | R | S | Thompsons |
| Sacramento | light red kidney | 85 | 2.3 | 59.3 | S | S | R | S | A.S.I. |
| AC Burrito | Pinto | 81 | 2.8 | 36.0 | S | S | S | S | Johnson Seeds |
| AC Ole | Pinto | 87 | 3.0 | 40.4 | R | R | S | S | O.S.S.D.C. |
| OAC Tomahawk | Pinto | 84 | 2.7 | 40.9 | R | S | S | S | O.S.S.D.C. |
| California White | white kidney | 99 | 2.2 | 59.8 | S | S | R | S | O.S.S.D.C. |
| Lassen | white kidney | 89 | 2.0 | 58.2 | S | S | R | S | A.S.I. |
| GTS 401 | white kidney | 94 | 2.9 | 45.2 | R | R | R | S | Gen-Tec |
| Aresteuben | yellow eye | 97 | 2.2 | 51.5 | S | R | R | R | O.S.S.D.C. |
| CCAT Cavendish | yellow eye | 88 | 2.1 | 51.3 | S | R | S | S | O.S.S.D.C. |
| GTS 1701 | yellow eye | 91 | 2.4 | 47.9 | R | R | R | S | Gen-Tec |

[1] Yields, maturities and seed weights are based on the means of 14 trials at 7 locations (Ailsa Craig, Winchester, Exeter, Woodstock, Staffa, St. Thomas and Thorndale) over 3 years (1997-1999).

[2] Disease Ratings (R = Resistant, S - Susceptible, NA = Not Available)

[3] 1 t/ha = 893 lbs./ac.

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ISSN 1198-712X
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